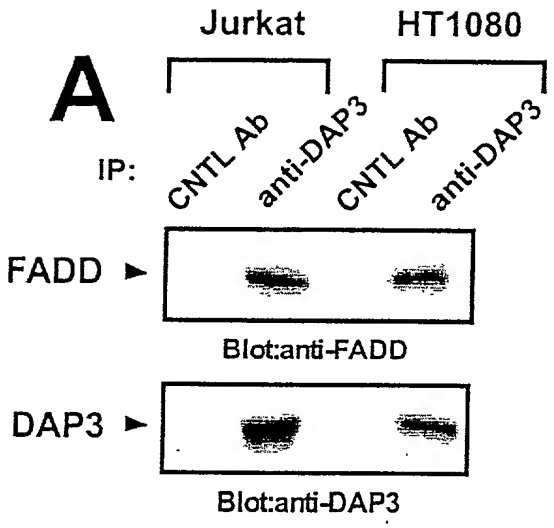
A
Jurkat
HT1080
IP:
CNTL Ab
anti-DAP3
CNTL Ab
anti-DAP3
FADD
Blot:anti-FADD
DAP3
Blot:anti-DAP3

FIGURE 1A

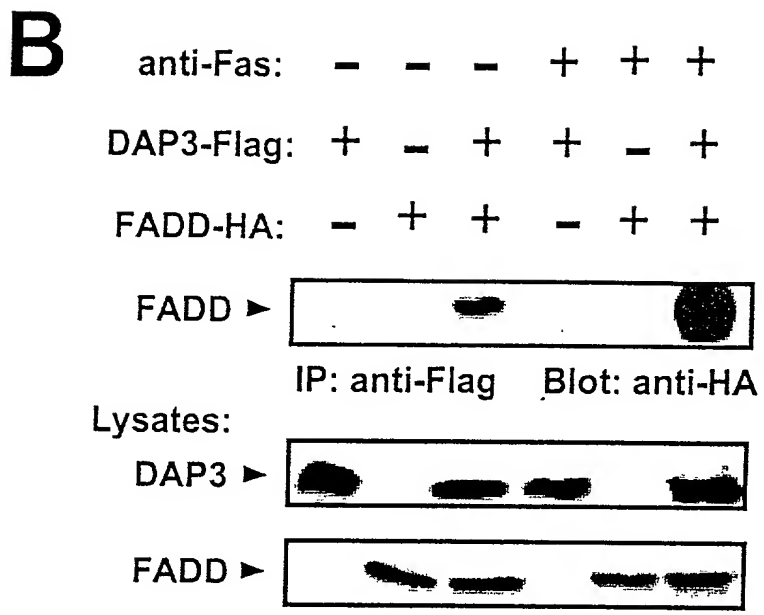
B
anti-Fas: - - - + + +
DAP3-Flag: + - + + - +
FADD-HA: - + + - + +
FADD ►
IP: anti-Flag Blot: anti-HA
Lysates:
DAP3 ►
FADD ►

FIGURE 1B

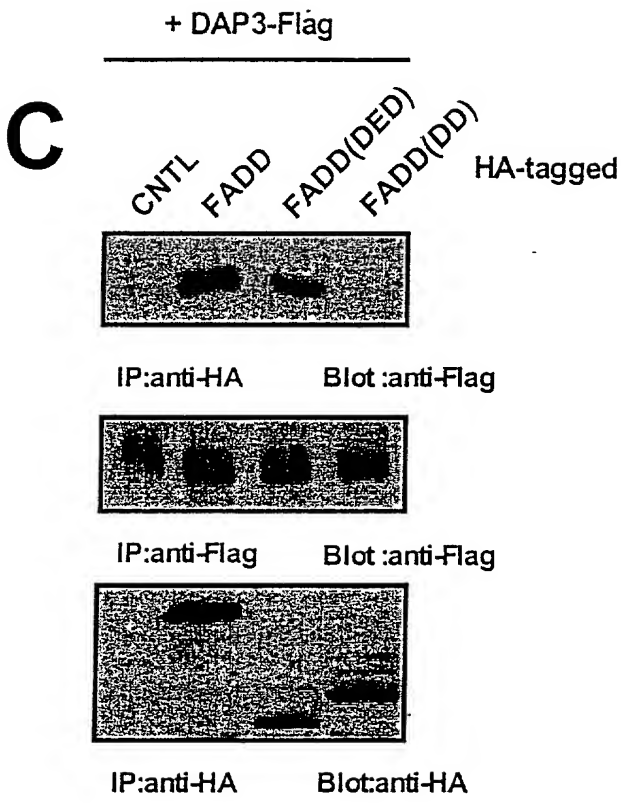

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FIGURE 1C

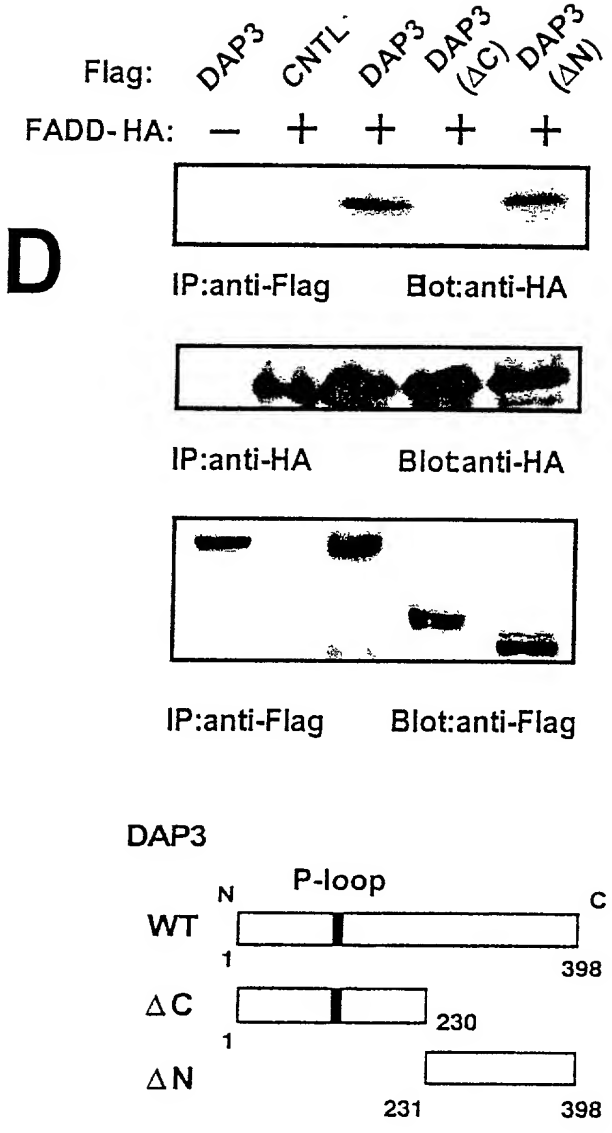

Flag:
DAP3
CNTL
DAP3
DAP3 (ΔC)
DAP3 (ΔN)
FADD-HA: — + + + +
D
IP:anti-Flag
Blot:anti-HA
IP:anti-HA
Blotanti-HA
IP:anti-Flag
Blot:anti-Flag
DAP3
N
P-loop
C
WT
1
398
ΔC
1
230
ΔN
231
398

FIGURE 1D

Fas-FADD-Casp8-Casp3

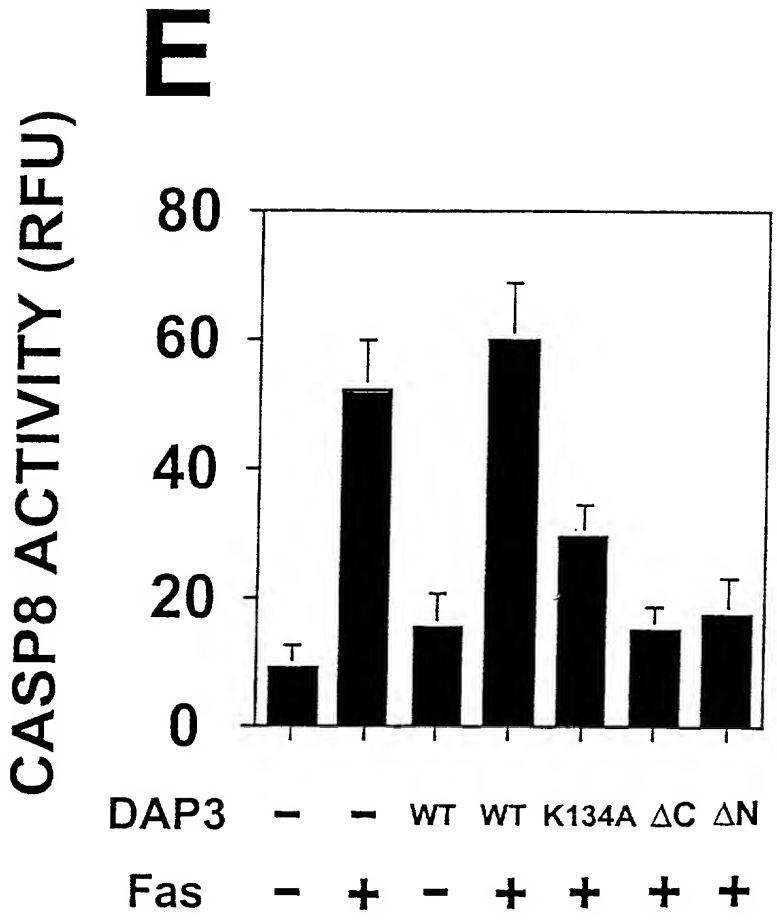


FIGURE 1E

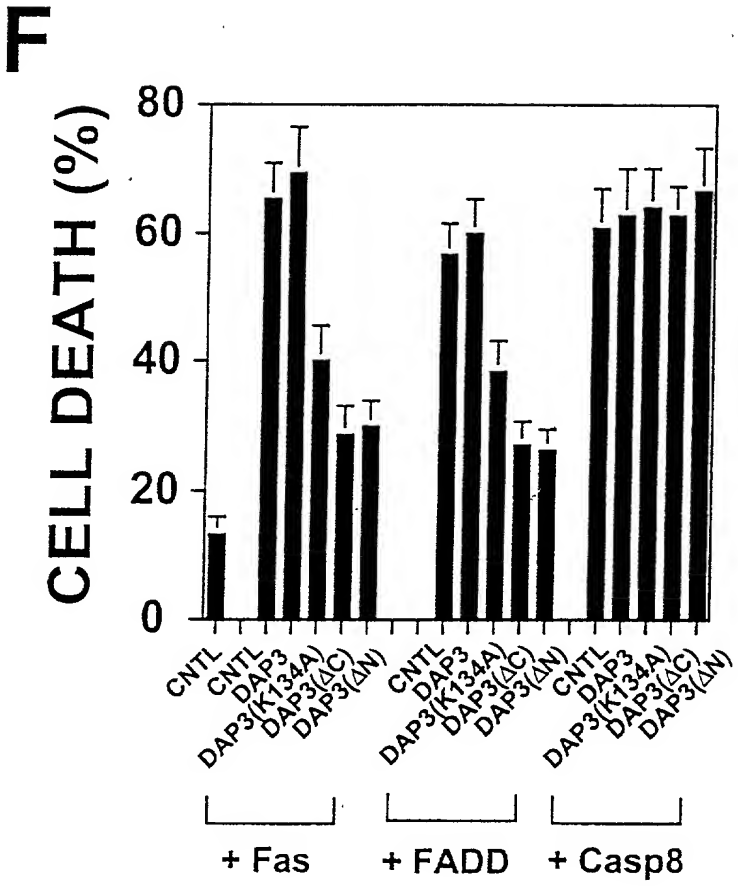

F
CELL DEATH (%)
80
60
40
20
0
CNTL
CNTL
DAP3
DAP3(K134A)
DAP3(ΔC)
DAP3(ΔN)
CNTL
DAP3
DAP3(K134A)
DAP3(ΔC)
DAP3(ΔN)
CNTL
DAP3
DAP3(K134A)
DAP3(ΔC)
DAP3(ΔN)
+ Fas
+ FADD
+ Casp8

FIGURE 1F

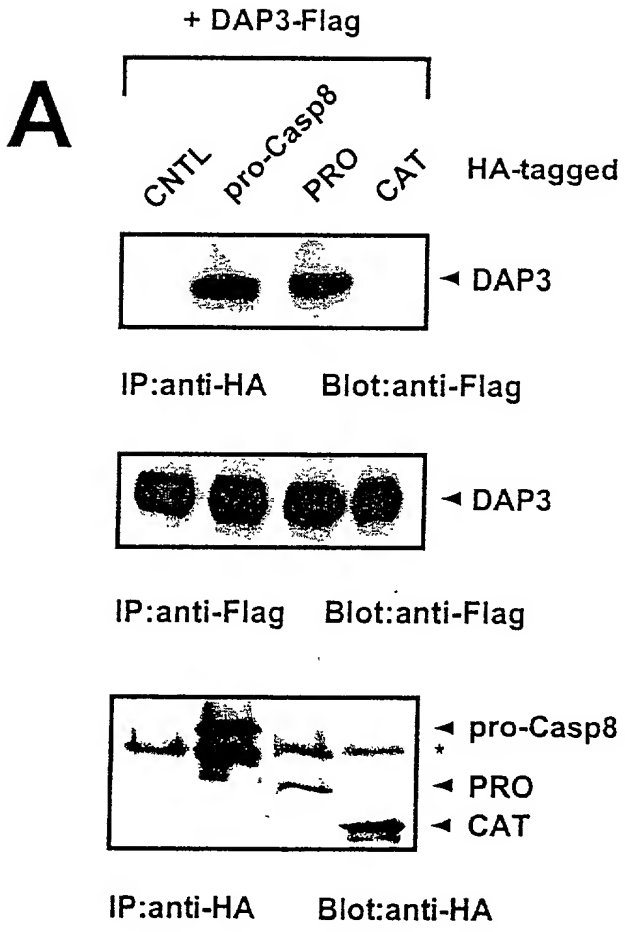

A
+ DAP3-Flag
CNTL
pro-Casp8
PRO
CAT
HA-tagged
DAP3
IP:anti-HA
Blot:anti-Flag
DAP3
IP:anti-Flag
Blot:anti-Flag
pro-Casp8
*
PRO
CAT
IP:anti-HA
Blot:anti-HA

FIGURE 2A

Express Mail #EL 790 000 005

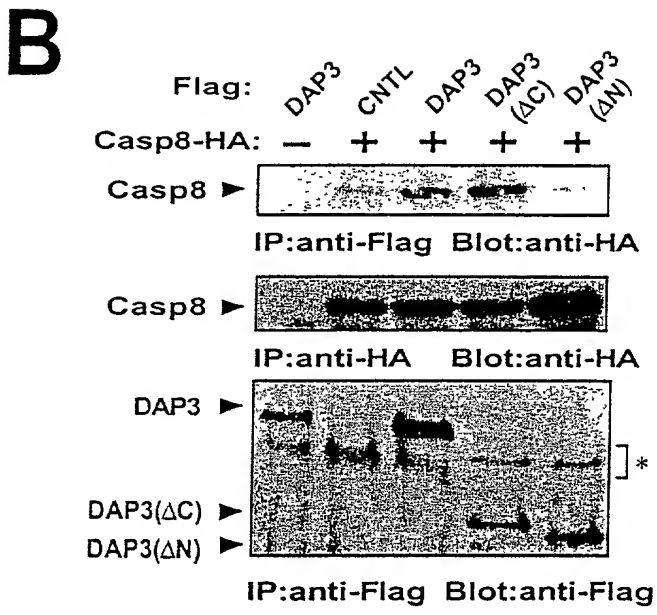


FIGURE 2B

10511.1*52100001

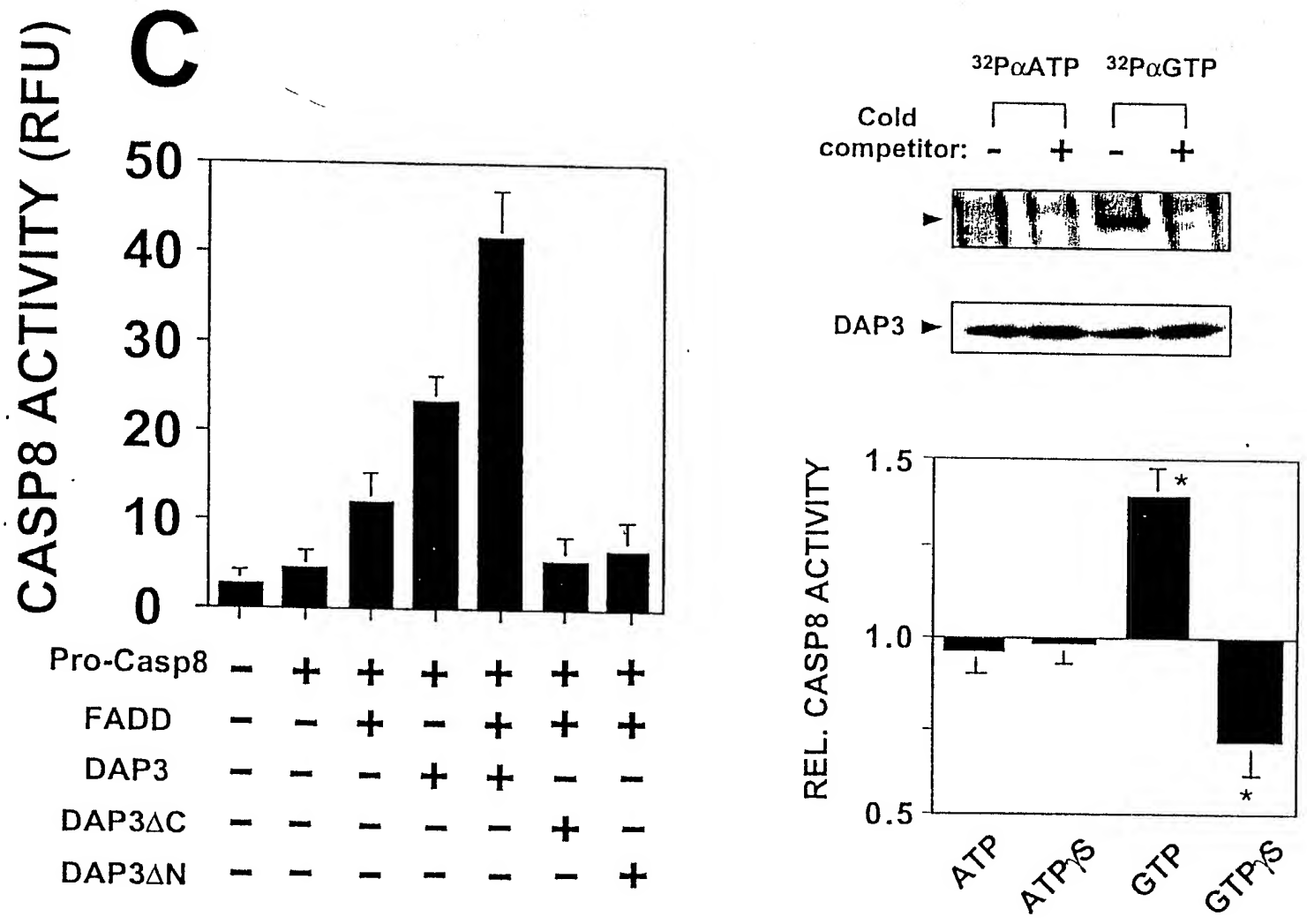


FIGURE 2C

10511 *152100

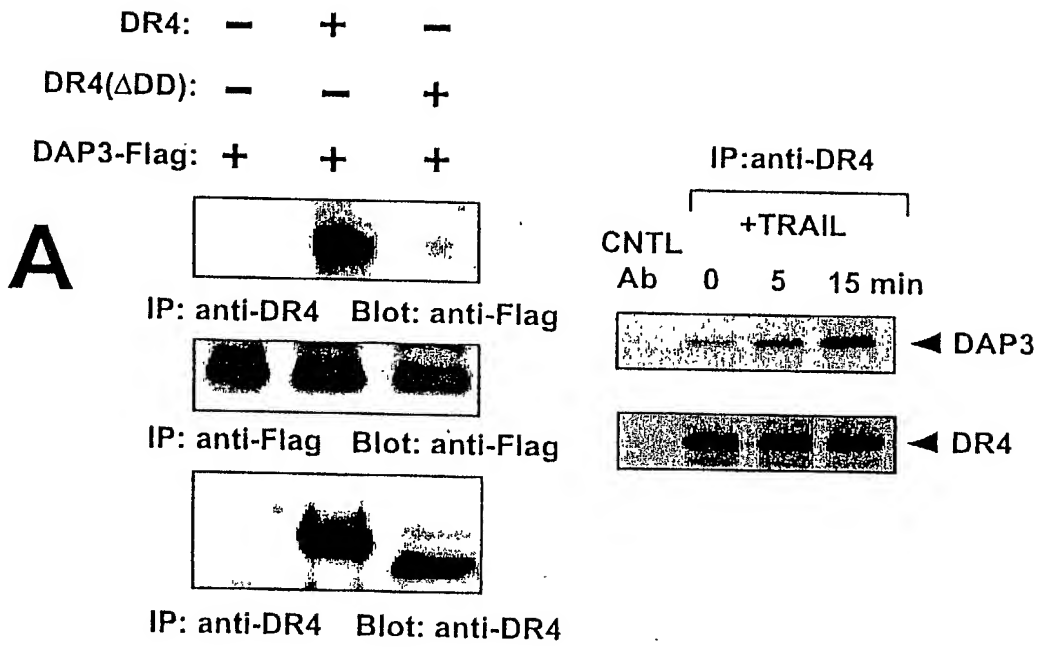


FIGURE 3A

EOSET hszroor

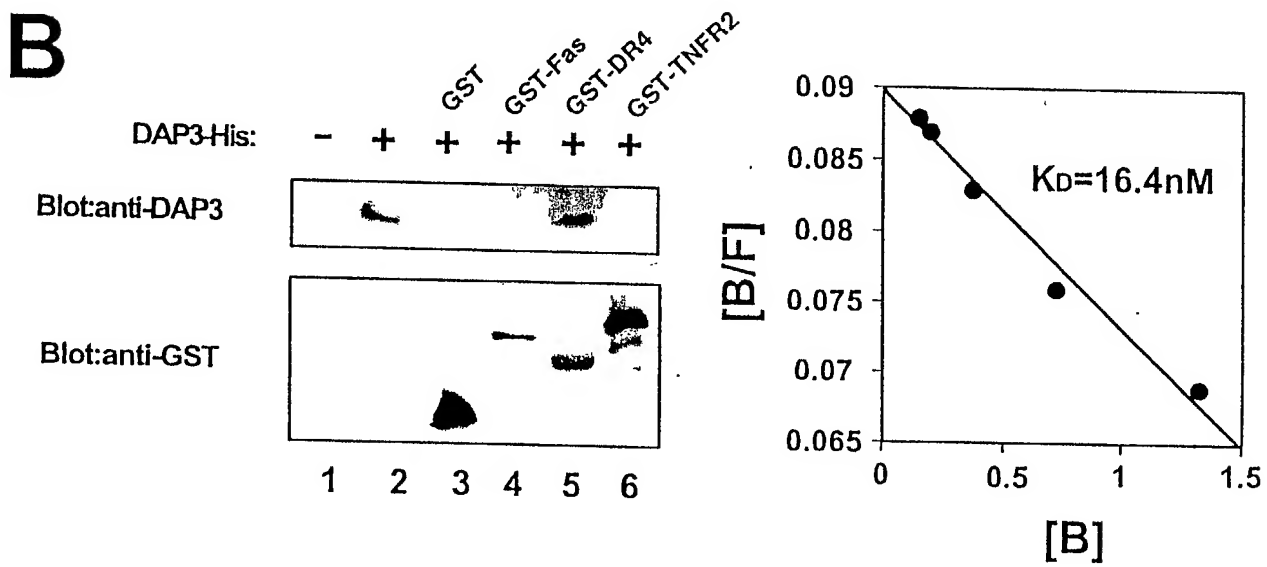
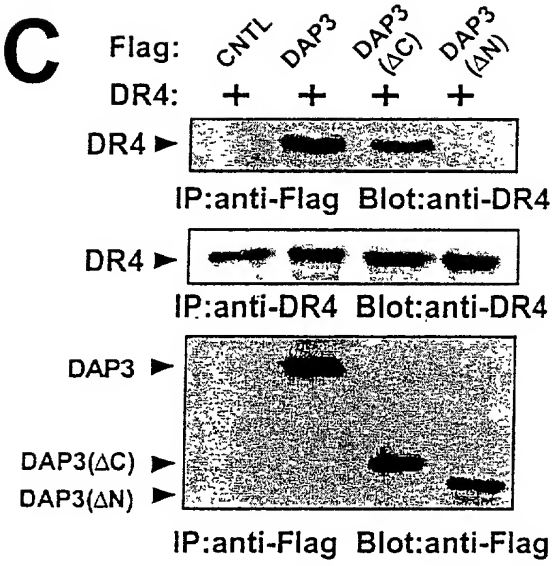


FIGURE 3B

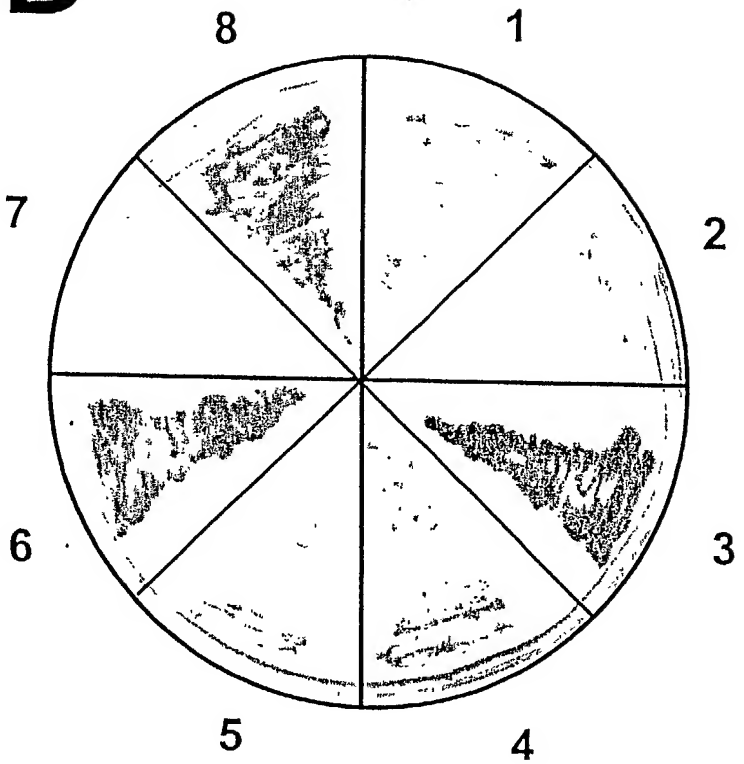


P-LJ-4524.0001

FIGURE 3C

10577 "052202"

D



	DBD	TA	DAP3	Result
1:	DR4	-	-	-
2:	DR4	FADD	-	-
3:	DR4	FADD	+	+
4:	DR5	-	-	-
5:	DR5	FADD	-	-
6:	DR5	FADD	+	+
7:	Fas	-	-	-
8:	Fas	FADD	-	+

FIGURE 3D

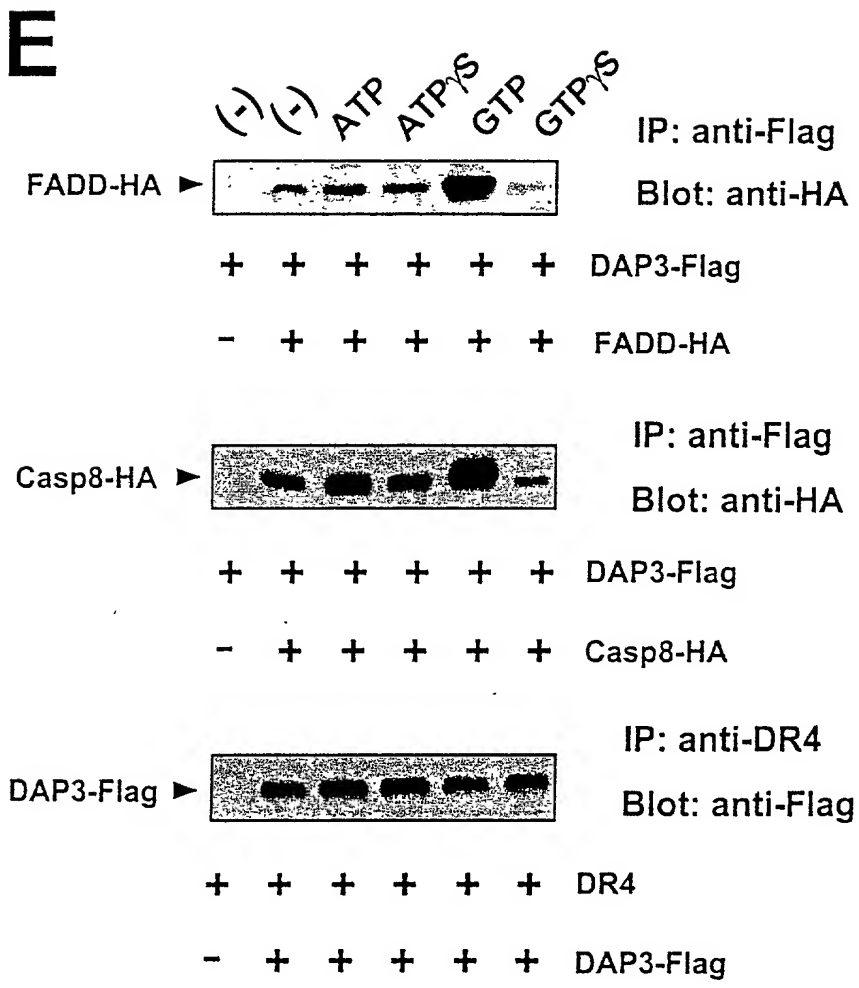

E
(-)
(-)
ATP
ATPγS
GTP
GTPγS
IP: anti-Flag
FADD-HA
Blot: anti-HA
+ + + + + + DAP3-Flag
- + + + + + FADD-HA
IP: anti-Flag
Casp8-HA
Blot: anti-HA
+ + + + + + DAP3-Flag
- + + + + + Casp8-HA
IP: anti-DR4
DAP3-Flag
Blot: anti-Flag
+ + + + + + DR4
- + + + + + DAP3-Flag

FIGURE 3E

PCT/US99/24054

F

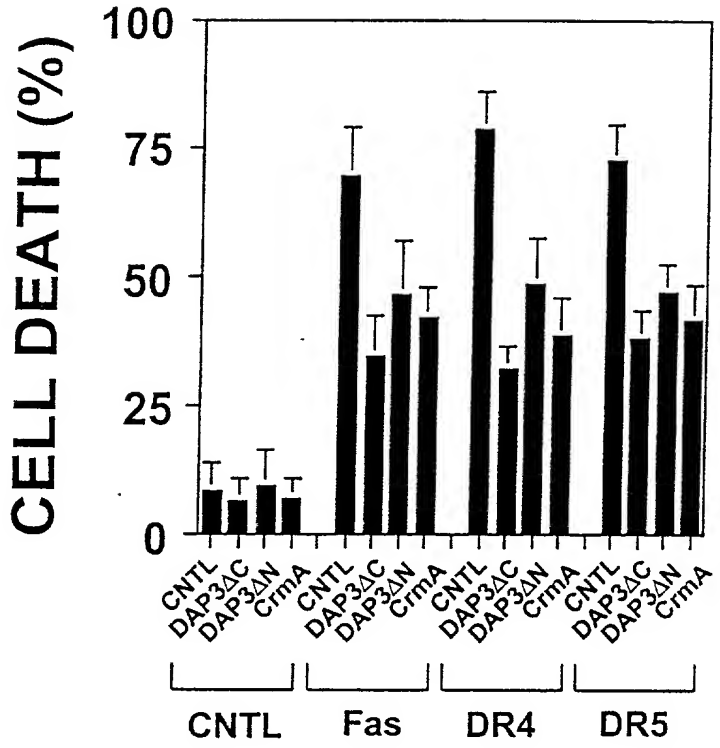


FIGURE 3F

G

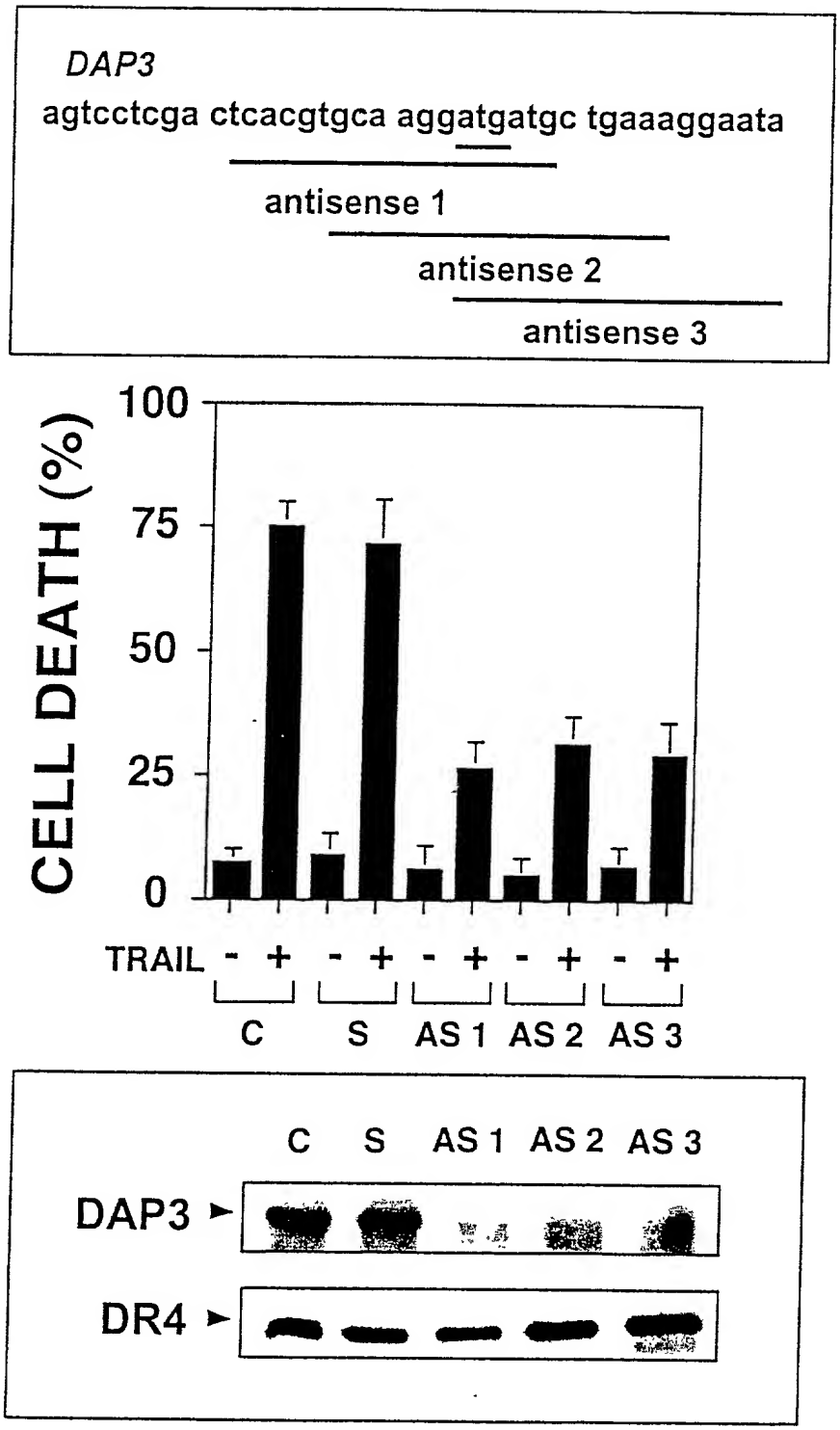

DAP3
agtcctcga ctcacgtgca aggatgatgc tgaaaggaata
antisense 1
antisense 2
antisense 3
CELL DEATH (%)
100
75
50
25
0
TRAIL - + - + - + - + - +
C
S
AS 1
AS 2
AS 3
C S AS 1 AS 2 AS 3
DAP3
DR4

FIGURE 3G

10577 "US02/10007"

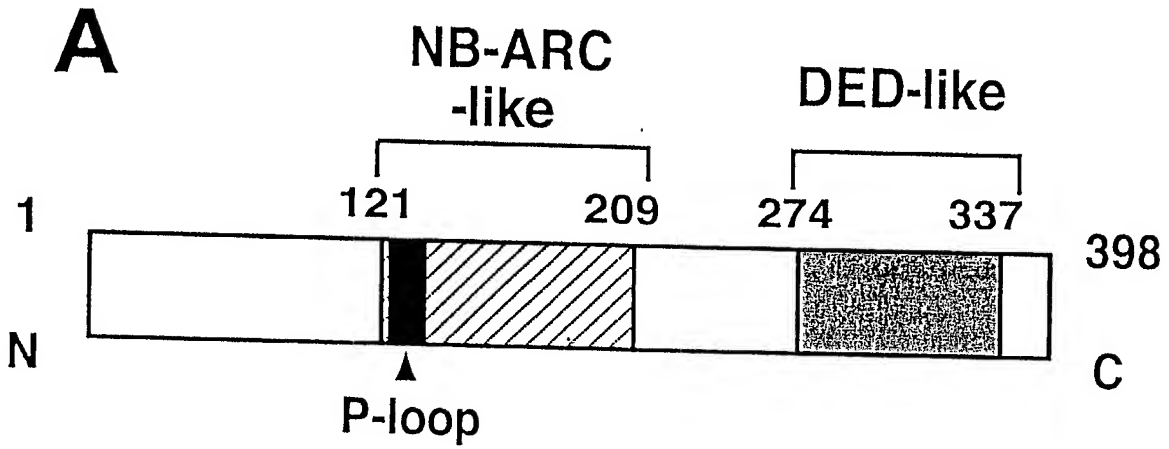


FIGURE 4A

10511 "US21000"

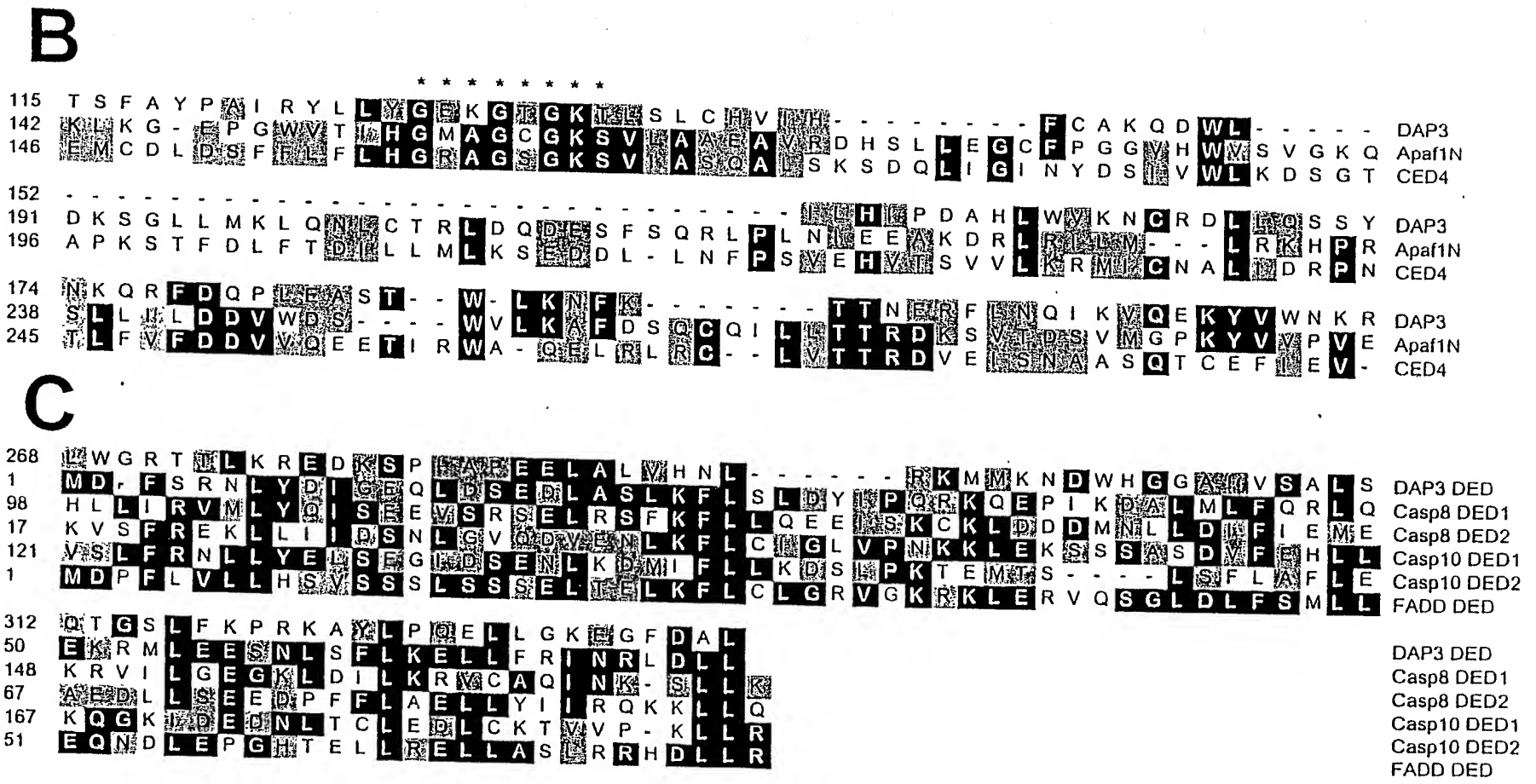


FIGURE 4B, C

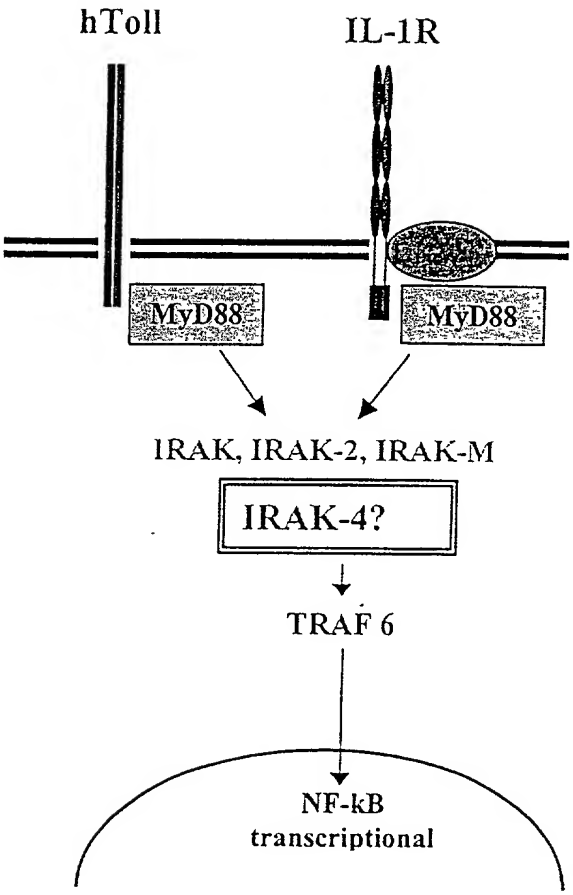

hToll
IL-1R
MyD88
MyD88
IRAK, IRAK-2, IRAK-M
IRAK-4?
TRAF 6
NF-kB
transcriptional

FIGURE 5

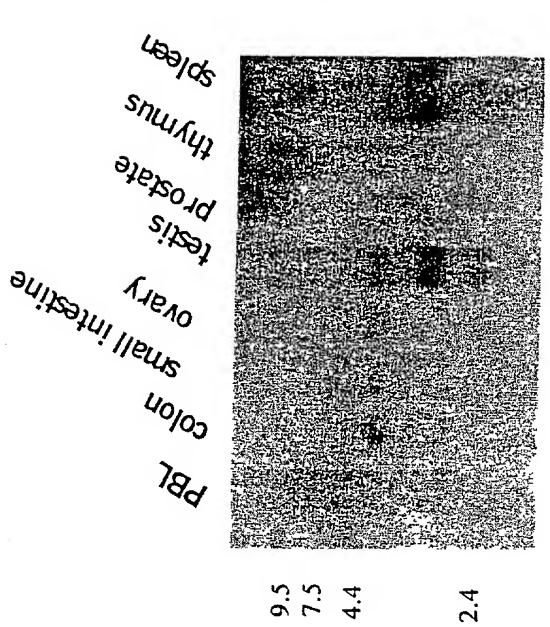

PBL
colon
small intestine
ovary
testis
prostate
thymus
spleen
9.5
7.5
4.4
2.4

FIGURE 6

A
pMYC-Traf6 + +
pHA-IRAK4 + -
IP αMYC
WB α HA
WB αHA
WB αMYC
B
pFLAG-hToll + +
pHA-IRAK4 + -
IP αFLAG
WB α HA
* HC
WB αHA
WB αFLAG
C
pHIS-MyD88 + +
pHA-IRAK4 + -
IP αHIS
WB α HA
WB αHA
WB αHIS

FIGURE 7

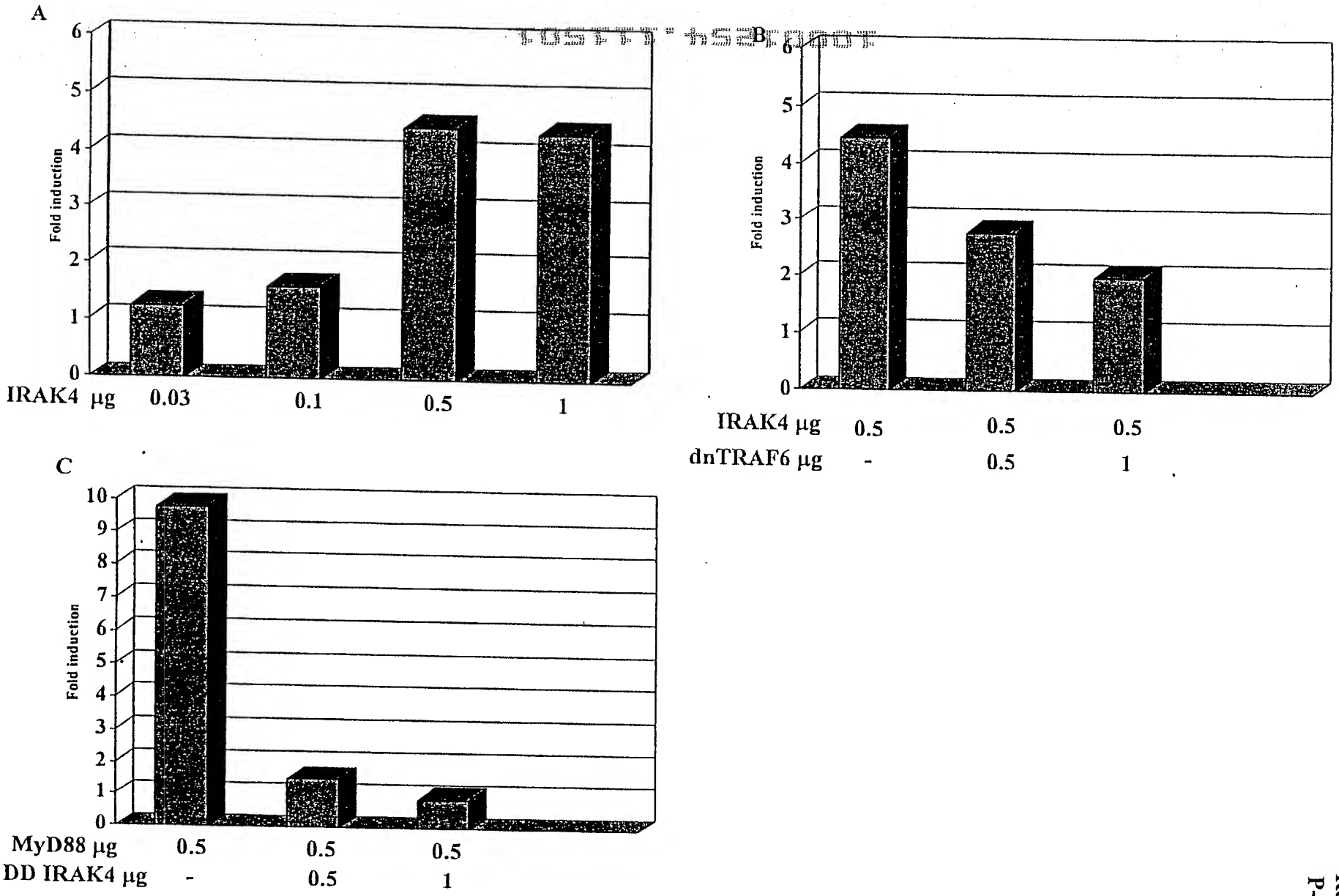


FIGURE 8

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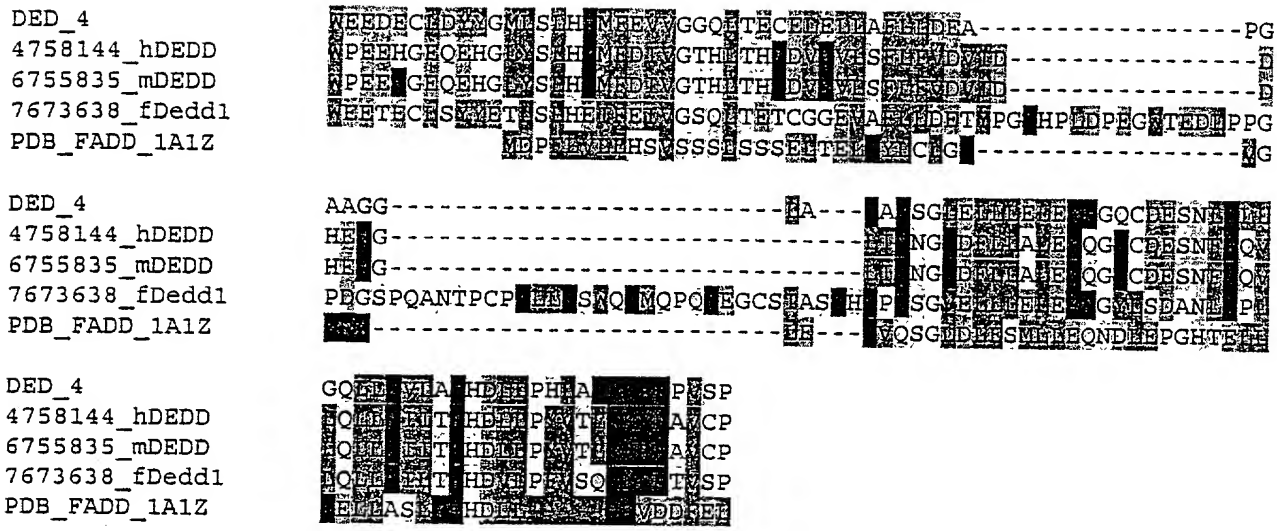

Express Mail Label No. EV 324 554 705 US

FIGURE 9

a tgaacaaacc cataacacca tcaacatatg tgcgctgcct caatgttgga ctaattagga agctgtcaga
ttttattgat cctcaagaag gatggaagaa gttagctgta gctattaaaa aaccatctgg
tgatgataga tacaatcagt ttcacataag gagatttgaa gcattacttc aaactggaaa
aagtcccact tctgaattac tgtttgactg gggcaccaca aattgcacag ttggtgatct
tgtggatctt ttgatccaaa atgaattttt tgctcctgcg agtcttttgc tcccagatgc
tgttcccaaa actgctaata cactaccttc taaagaagct ataacagttc agcaaaaaca
gatgcctttc tgtgacaaag acaggacatt gatgacacct gtgcagaatc ttgaacaaag
ctatatgcca cctgactcct caagtccaga aaataaaagt ttagaagtta gtgatacacg
ttttcacagt ttttcatttt atgaattgaa gaatgtcaca aataactttg atgaacgacc
catttctgtt ggtggtaata aaatgggaga gggaggattt ggagttgtat ataaaggcta
cgtaaataac acaactgtgg cagtgaagaa gcttgcagca atggttgaca ttactactga
agaactgaaa cagcagtttg atcaagaaat aaaagtaatg gcaaagtgtc aacatgaaaa
cttagtagaa ctacttggtt tctcaagtga tggagatgac ctctgcttag tatatgttta
catgcctaat ggttcattgc tagacagact ctcttgcttg gatggtactc caccactttc
ttggcacatg agatgcaaga ttgctcaggg tgcagctaat ggcatcaatt ttctacatga
aaatcatcat attcatagag atattaaaag tgcaaatatc ttactggatg aagcttttac
tgctaaaata tctgactttg gccttgcacg ggcttctgag aagtttgccc agacagtcat
gactagcaga attgtgggaa caacagctta tatggcacca gaagctttgc gtggagaaat
aacacccaaa tctgatattt acagctttgg tgtggtttta ctagaaataa taactggact
tccagctgtg gatgaacacc gtgaacctca gttattgcta gatattaaag aagaaattga
agatgaagaa aagacaattg aagattatat tgataaaaag atgaatgatg ctgattccac
ttcagttgaa gctatgtact ctgttgctag tcaatgtctg catgaaaaga aaaataagag
accagacatt aagaaggttc aacagctgct gcaagagatg acagcttctt aa

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FIGURE 10A

MNKPITPSTYVRCLNVGLIRKLSDFIDPQEGWKKLAVAIKKPSG
DDRYNQFHIRRFEALLQTGKSPTSELLFDWGTTNCTVGDLVDLLIQNEFFAPASLLLP
DAVPKTANTLPSKEAITVQQKQMPFCDKDRTLMTPVQNLEQSYMPPDSSSPENKSLEV
SDTRFHSFSFYELKNVTNNFDERPISVGGNKMGEGGFGVVYKGYVNNTTVAVKKLAAM
VDITTEELKQQFDQEIKVMAKCQHENLVELLGFSSDGDDLCLVYVYMPNGSLLDRLSC
LDGTPPLSWHMRCKIAQGAANGINFLHENHHIHRDIKSANILLDEAFTAKISDFGLAR
ASEKFAQTVMTSRIVGTTAYMAPEALRGEITPKSDIYSFGVVLLEIITGLPAVDEHRE
PQLLLDIKEEIEDEEKTIEDYIDKKMNDADSTSVEAMYSVASQCLHEKKNKRPDIKKV
QQLLQEMTAS

Express Mail No. EV 454 600 047

FIGURE 10B

Death domains:
C. pneumoniae
DLWRQFALSLGVSEEELANHEFSQAAQDMVATFRRLCDMPQLAVGLGALYTYEIQIPQVCVEKIR
C. muridarum
DLWKQFVFALGVSSEELEAHEPSEAAKAKVATFMRWCTGDSLAAGVAALYSYESQIPCVAKEKIR
C. psittaci
DLWKNFAYALGVTEEELENHVPSAAAQKKVDTFLRWCTGDSLSAGVAALYTYESQIPTVAETKIS

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FIGURE 11A

GI:7190927
ORGANISM Chlamydia muridarum
ORIGIN
1 mesrkgikev smnfldqlda iiqnkhmleh pfymkwskge ltkeqlqaya
kdyylhikaf
61 pkylsaihsr cddlearkll ldnlmdeeng ypnhidlwkq fvfalgvsse
eleahepsea
121 akakvatfmr wctgdslaag vaalysyesq ipcvakekir glieyfgfsn
pedyayfteh
181 eeadvrhare ekaliemlsr ddsdkvleas revtqslygf ldsflepatc
chchka

GI:7468151
ORGANISM Chlamydophila pneumoniae [Chlamydia pneumoniae]
ORIGIN
1 mtswielldk qiedqhmlkh efyqrwsegk lekqqlqaya kdyylhikaf
pcylsalhar
61 cddlqirrqi lenlmdeeag npnhidlwrq falslgvsee elanhefsqa
aqdmvatfrr
121 lcdmpqlavg lgalytyeiq ipqvcvekir glkeyfgvsa rgyayftvhq
eadikhasee
181 kemlqtlvgr enpdavlqgs qevldtlwnf lssfinstep csck

FIGURE 11B

```
6405                                                    ttaagc tttgtgacaa
6421 tgacaacatg ttgcaggctc taaaaatgaa tccaaaaagc cgtataaaga ttgtgtaact
6481 tctcgcgaag cttctaaaac tttgtcgcta tcatctctag acaacatctc aattaaggcc
6541 ttttcttccc tagcatgacg cacatcagct tcttcatgct ccgtgaaata agcataatct
6601 tcaggattag aaaagccaaa gtactcaatc aatccacgaa ttttttcttt agctacgcaa
6661 ggaatttgac tttcataaga atacaaagcc gctactcctg ctgctaaaga atcccctgtg
6721 caccaccgca taaatgtcgc aaccttagct ttagctgctt cactgggttc atgagcttct
6781 agctcttctg aagacactcc aagagcaaac acaaattgtt tccataaatc aatatgatta
6841 ggataaccat tctcttcatc cattaagtta tctaataata acttgcgggc ttctaaatca
6901 tcacaacggc tatgaatagc agataaatat tttggaaaag ctttgatatg caaatagtaa
6961 tcttttgcgt atgcctgtaa ttgttctttt gtcagctctc cttttgacca cttcatgtaa
7021 aaagggtgtt ctaacatatg tttgttttga ataattgcat ctagctgatc taaaaaattc
7081 atgctcacct cttttattcc ttttcttgat tccac 7115
```

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FIGURE 11C

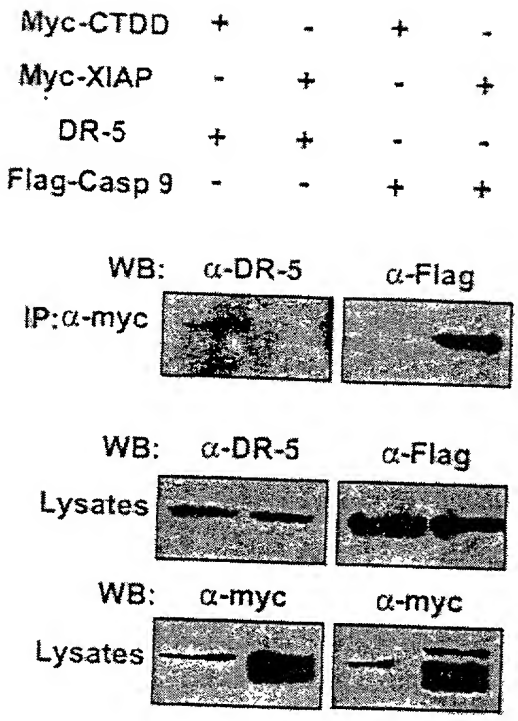
Myc-CTDD + - + -
Myc-XIAP - + - +
DR-5 + + - -
Flag-Casp 9 - - + +
WB: α-DR-5 α-Flag
IP:α-myc
WB: α-DR-5 α-Flag
Lysates
WB: α-myc α-myc
Lysates

FIGURE 12

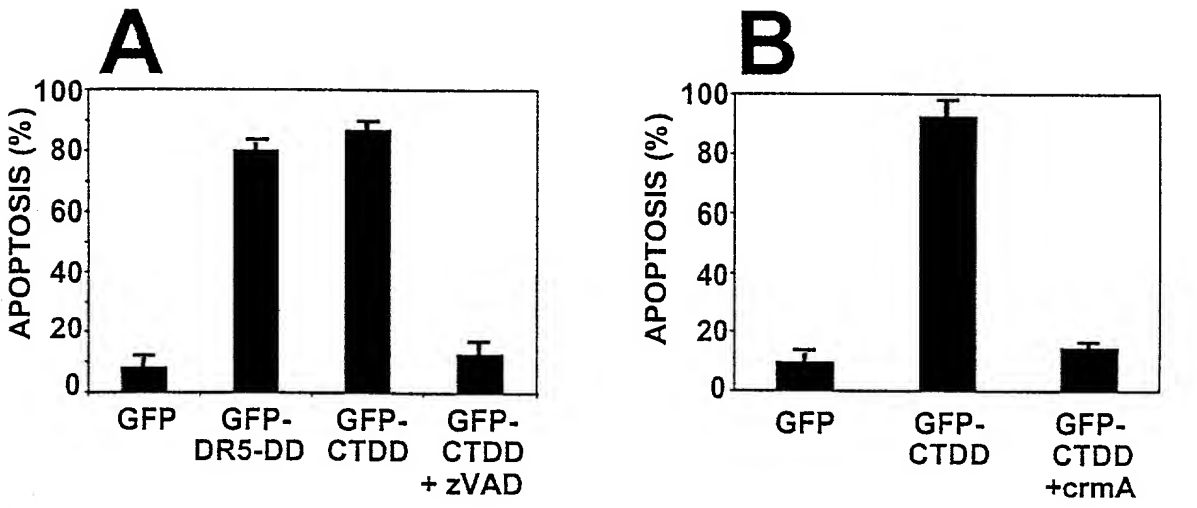

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FIGURE 13

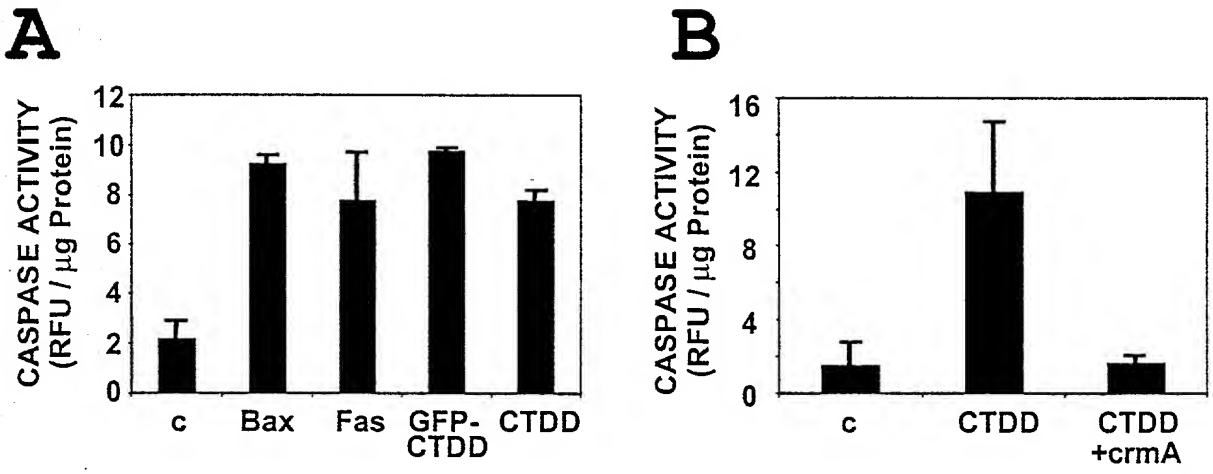
A
CASPASE ACTIVITY
(RFU / µg Protein)
12
10
8
6
4
2
0
c
Bax
Fas
GFP-
CTDD
CTDD
B
CASPASE ACTIVITY
(RFU / µg Protein)
16
12
8
4
0
c
CTDD
CTDD
+crmA

FIGURE 14

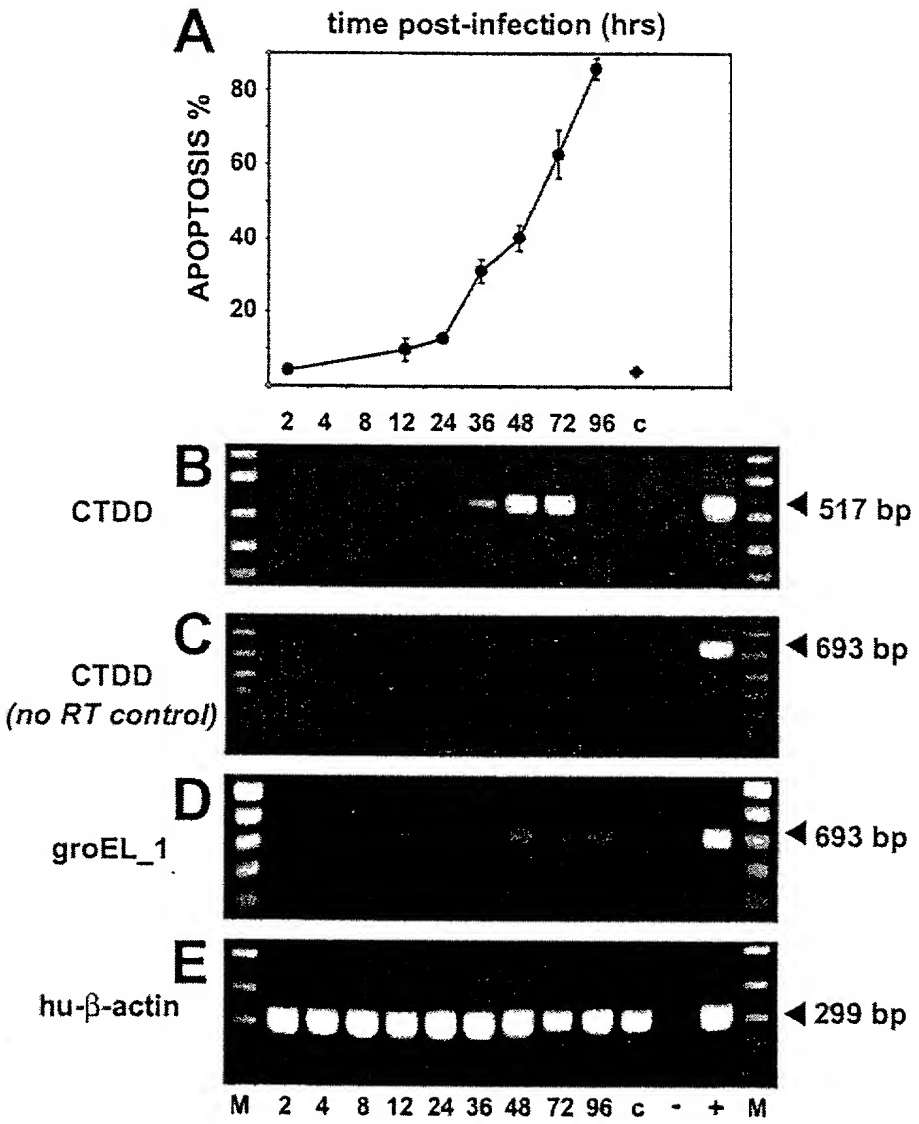
A
time post-infection (hrs)
APOPTOSIS %
80
60
40
20
2 4 8 12 24 36 48 72 96 c
B
CTDD
517 bp
C
CTDD
(no RT control)
693 bp
D
groEL_1
693 bp
E
hu-β-actin
299 bp
M 2 4 8 12 24 36 48 72 96 c - + M

FIGURE 15